RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 091400, 999 A
Source: 17006
Date Processed by STIC: 300 65

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 03/22/2005 PATENT APPLICATION: US/09/422,999A TIME: 11:41:00

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3 <110> APPLICANT: Kawasaki, Hiroaki
        Graybiel, Ann
        Housman, David
 5
 7 <120> TITLE OF INVENTION: Genes Integrating Signal Transduction Pathways
 9 <130> FILE REFERENCE: MIT-103
11 <140> CURRENT APPLICATION NUMBER: US 09/422,999A
12 <141> CURRENT FILING DATE: 1999-10-22
14 <150> PRIOR APPLICATION NUMBER: US 60/105,507
15 <151> PRIOR FILING DATE: 1998-10-23
17 <150> PRIOR APPLICATION NUMBER: US 60/108,685
18 <151> PRIOR FILING DATE: 1998-11-16
20 <160> NUMBER OF SEQ ID NOS: 58
22 <170> SOFTWARE: PatentIn version 3.3
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25 <211> LENGTH: 2250
26 <212> TYPE: DNA
27 <213> ORGANISM: Mus musculus
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32 <222> LOCATION: (166)..(1989)
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                                                                         120
                                                                         177
39 getetgagag tgtaaettgg gtetageeca etggeaeegg eagee atg geg age aet
40
                                                      Met Ala Ser Thr
41
                                                                         225
43 ctg gac ctg gac aag ggt tgc acc gtg gag gag ctg ctc cgt ggc tgt
44 Leu Asp Leu Asp Lys Gly Cys Thr Val Glu Glu Leu Leu Arg Gly Cys
                       10
                                                                         273
47 atc gaa gcc ttt gat gac tct gga aag gtg cga gat cca cag cta gtg
48 Ile Glu Ala Phe Asp Asp Ser Gly Lys Val Arg Asp Pro Gln Leu Val
                                       30
                                                                         321
51 ege atg ttt ete atg atg eac eee tgg tae ata eet tee tet eag etg
52 Arg Met Phe Leu Met Met His Pro Trp Tyr Ile Pro Ser Ser Gln Leu
55 gct tcg aaa ctg ctc cac ttc tat cag caa tcc cgg aag gac aac tcc
                                                                         369
56 Ala Ser Lys Leu Leu His Phe Tyr Gln Gln Ser Arg Lys Asp Asn Ser
57
           55
                               60
                                                    65
59 aat too ota cag gtg aaa acc tgt cac ctg gtc agg tac tgg gtc tca
                                                                         417
60 Asn Ser Leu Gln Val Lys Thr Cys His Leu Val Arg Tyr Trp Val Ser
                           75
                                                80
63 gcc ttc cca gca gag ttc gac ttg aac cca gag ctg gct gaa ccg atc
                                                                         465
64 Ala Phe Pro Ala Glu Phe Asp Leu Asn Pro Glu Leu Ala Glu Pro Ile
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RAW SEQUENCE LISTING DATE: 03/22/2005
PATENT APPLICATION: US/09/422,999A TIME: 11:41:00

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69					105					110			£		115		_	
											tac						ت	61
	Ser	Leu	Ile	_	Ile	GIu	Ser	Val		Thr	Tyr	Lys	Trp		Arg	GIn		
73				120					125					130			_	
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	atc	t.cc	ctc	ttc	aac	agt	atc	tct	caq	taa	gtc	caa	ctc	atq	atc	ctc	ε	301
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	adc	aad	CCC		acc	acq	cag	caa		cta	gtc	atc	aca		ttc	at.a	ε	349
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97	DCI	Lys	215		1114		0111	220		200	• • •		225					
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109					265								~ +				7	L041
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113				280					28!					29			-	
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117			29					300					30!					
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121		310					315					32						
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	_		g Thi	r Arg	g Lei			/ Ala	a Ly:	s Me			ı Lei	u Ph	e Se:	r Ile		
	325					330					335					340		
																a gcc]	1233
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Input Set : A:\MIT-103.ST25.txt

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136	Thr	Glu	Asp	Glu	Leu	Tyr	Gln	Leu	Ser	Leu	Gln	Arg	Glu	${\tt Pro}$	Arg	Ser	
137			375					380					385				
139	aag	tca	tcg	ccc	acc	agc	CCC	acc	agc	tgc	acc	ccg	cct	CCC	cgg	ccg	1377
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164	Leu	Arg	Ser	Ser	Ser	Val	Leu	Gly	Gly	Arg	Met	Gly	Phe	Val	His	Asn	
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167	ttc	cag	gag	agt	aac	tcg	cta	agg	ccg	gtc	gcc	tgc	cga	cac	tgc	aaa	1713
168	Phe	Gln	Glu	Ser	Asn	Ser	Leu	Arg	Pro	Val	Ala	Cys	Arg	His	Cys	Lys	
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172	Ala	Leu	Ile	Leu	Gly	Ile	Tyr	Lys	Gln	Gly	Leu	Lys	Cys	Arg	Ala	Cys	
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RAW SEQUENCE LISTING DATE: 03/22/2005
PATENT APPLICATION: US/09/422,999A TIME: 11:41:01

Input Set : A:\MIT-103.ST25.txt

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	His	Leu	Thr	Tyr		GIU	Tyr	Arg	Ser		Cys	ьуs	тте	ьeu	Phe	GIn	
254	7		TT: _	Q	165	77_7	m1	***	a1	170	(TI)	***- 1	7	7 ~~~	175	77-3	
	Asp	ıyr	HIS		Pne	vai	THE	HIS		Cys	THE	vaı	ASP		Pro	vai	
258	T	~1	7	180	T1.	C 0 10	T 011	Dho	185	Com	*** 1	Cox	C1 n	190	v. 1	Cln	
	ьец	GIU	_	Pne	116	ser	ьeu	200	ASII	ser	vai	ser	205	пр	Val	GIII	
262	T 011	Mot	195	T 011	cor	Tarc	Dro		71-	Thr	Cln	λνα		Len	Val	Tla	
266	пеп	210	116	ьеu	261	пуъ	215	TIIL	Ala	T 11T	GIII	220	Ата	шеи	vai	116	
	Thr		Dhe	T = T	Иie	บอไ		Glu	T.vc	T.011	T.e.11		T.e.11	Gln	Asn	Phe	
	225	птъ	FIIC	vai	птъ	230	Ala	Giu	цуз	пец	235	GIII	Lea	GIII	ASII	240	
		Thr	T.011	Mot	Δla		V=1	Glv	G1 v	T.011		Hic	Ser	Ser	Ile		
274	ASII	1111	пец	Mec	245	vai	vai	Gry	Gry	250	Der	1113	DCI	JCI	255	DCI	
	Δτα	T.011	Laze	Glu		ніс	Ser	Hic	Va 1		Pro	Agn	Thr	Tle	Lys	Len	
278	ALG	шеи	цуз	260	1111	1115	DCI	1115	265	DCL	110	пор	1111	270	 ,	Dea	
	Trn	Glu	Glv		Thr	Glu	Len	Val		Δla	Thr	Glv	Asn		Ser	Asn	
282	111	JIU	275	1 10	1111	JIU	Lcu	280	****		****	O-Y	285	-1-			
	ጥኒንን	Δrσ		Δra	Len	Δla	د ۲ ∆		۷a٦	Glv	Phe	Ara		Pro	Ile	Leu	
286	-1-	290		9	 _u		295	Cys	* 4.1	- 1		300					
	Glv		His	Leu	Lve	Asn		Val	Ala	Len	Gln		Ala	Leu	Pro	Asp	
	305	1 U.I		<u> </u>	y 13	310	_cu	• 441		Leu	315	_cu		u		320	
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RAW SEQUENCE LISTING DATE: 03/22/2005
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293 294	Trp	Leu	Asp	Pro	Gly 325	Arg	Thr	Arg	Leu	Asn 330	Gly	Ala	Lys	Met	Arg	Gln	
	Leu	Phe	Ser	Ile 340		Glu	Glu	Leu	Ala 345		Val	Thr	Ser	Leu 350		Pro	
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	Asp		355 Tyr	Gln	Thr	Glu	_	360 Glu	Leu	Tyr	Gln			Leu	Gln	Arg	
306	~1	370	7	0	T	C	375	D	⊞\ a aa	0	D	380	C	O	mb	Dwo	
	385	Pro	Arg	ser	ьуѕ	390	ser	PIO	THE	ser	395	IIIL	ser	Cys	1111	400	
		Pro	Arg	Pro	Pro		T.e.ii	Glu	Glu	Trn		Ser	Val	Δla	Lvs		
314	110	110		110	405	• • • •	Lea	014	014	410		001	, 41		415		
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	_	Asp	Leu	Asp	Gln		Gln	Asp	Gly	Cys		Ser	Arg	Glu	Glu		
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	Ile	Ser	Tyr	Phe		Arg	Ser	Ser	Ser		Leu	Gly	Gly	Arg		Gly	
334	-1			_	485	~ 7	~3		_	490	.	-	5	** - 7	495	Q	
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338	7. ~~~	ui a	Crra	500	ח ד ת	T 011	т1о	T 011	505	т1.	Ф	Tara	Cln	510	T 011	Lvc	
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346	СуБ	530	ліа	Cys	Gry	Val	535	СуЗ	1113	цуз	Q111	540	цуз	пор	n. 9	D Cu	
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	545			- 2	5	550	5				555				-	560	
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VERIFICATION SUMMARY

DATE: 03/22/2005

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